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## CLAIMS:

- 1. An isolated nucleic acid comprising DNA encoding an antibody which specifically cross-reacts with two or more different Apo-2L receptors.
- 2. The nucleic adid of claim 1 wherein the antibody comprises a monoclonal antibody.

  how are it not be monoclonal
- 3. The nucleic acid of claim 1 wherein the antibody specifically binds to Apo-2 polypeptide and further specifically cross-reacts with another Apo-2L receptor.
- 15 4. The nucleic acid of claim 1 wherein the antibody specifically binds to Apo-2 polypeptide and further specifically cross-reacts with DR4.
  - 5. The nucleic acid of claim 1 wherein the antibody is an agonistic antibody.
  - 6. The nucleic acid of claim 1 wherein the antibody is a blocking antibody.
- 7. The nucleic acid of claim 1 wherein the antibody is an antibody fragment.
  - 8. The nucleic acid of claim 1 wherein the antibody comprises non-human hypervariable region residues and human framework region residues.

- 9. The nucleic acid of claim 1 wherein the antibody is a human antibody.
- 10. The nucleic acid of claim 1 wherein the Apo-2L receptors are native sequence Apo-2L receptors.
  - 11. The nucleic acid of claim 5 wherein the agonistic antibody binds to Apo-2 polypeptide or DR4.
- 10 12. An isolated nucleic acid comprising DNA encoding an antibody having the biological characteristics of a monoclonal antibody selected from the group consisting of 3H1.18.10 (produced by the hybridoma having ATCC Accession No. HB-12535), 3H3.14.5 (produced by the hybridoma having ATCC Accession No. HB-12534) and 3D5.1.10 (produced by the hybridoma having ATCC Accession No. HB-12536).
  - 13. The nucleic acid of claim 12 wherein the antibody binds to the same epitope as the epitope to which a monoclonal antibody selected from the group consisting of 3H1.18.10 (produced by the hybridoma having ATCC Accession No. HB-12535), 3H3.14.5 (produced by the hybridoma having ATCC Accession No. HB-12534) and 3D5.1.10 (produced by the hybridoma having ATCC Accession No. HB-12536) binds.

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14. The nucleic acid of claim 12 wherein the antibody has the hypervariable region residues of a monoclonal antibody selected from the group consisting of 3H1.18.10(produced by the hybridoma having ATCC Accession No. HB-12535), 3H3.14.5 (produced by the hybridoma having ATCC Accession No. HB-12534) and 3D5.1.10 (produced by the hybridoma having ATCC Accession No. HB-12536).

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- 15. A vector comprising the nucleic acid of claim 1.
- 16 A host cell comprising the nucleic acid of claim 1.
- A method of producing an antibody comprising culturing 5 the host cell of claim 16 under conditions wherein the DNA is expressed.
- The method of claim 17 further comprising recovering the 10 antibody from the host cell culture.
  - The method of claim 18 further comprising combining the antibody pharmaceutically recovered with a acceptable carrier.

The method of claim 18 further comprising conjugating the recovered antibody with a heterologous molecule.

21. The method of claim 20 wherein the heterologous molecule is polyethylene glycol, a label or a cytotoxic agent.

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